

## Environmental Protection Agency

## § 60.452

assembly plant engaged in the application and curing of organic surface coatings on large appliance parts or products.

*Organic coating* means any coating used in a surface coating operation, including dilution solvents, from which VOC emissions occur during the application or the curing process. For the purpose of this regulation, powder coatings are not included in this definition.

*Powder coating* means any surface coating that is applied as a dry powder and is fused into a continuous coating film through the use of heat.

*Spray booth* means the structure housing automatic or manual spray application equipment where a coating is applied to large appliance parts or products.

*Surface coating operation* means the system on a large appliance surface coating line used to apply and dry or cure an organic coating on the surface of large appliance parts or products. The surface coating operation may be a prime coat or a topcoat operation and includes the coating application station(s), flashoff area, and curing oven.

*Transfer efficiency* means the ratio of the amount of coating solids deposited onto the surface of a large appliance part or product to the total amount of coating solids used.

*VOC content* means the proportion of a coating that is volatile organic compounds (VOC's), expressed as kilograms of VOC's per liter of coating solids.

*VOC emissions* means the mass of volatile organic compounds (VOC's), expressed as kilograms of VOC's per liter of applied coating solids, emitted from a surface coating operation.

(b) All symbols used in this subpart not defined below are given the meaning in the Act or subpart A of this part.

$C_a$  = the concentration of VOC's in a gas stream leaving a control device and entering the atmosphere (parts per million by volume, as carbon).

$C_b$  = the concentration of VOC's in a gas stream entering a control device (parts per million by volume, as carbon).

$C_d$  = the concentration of VOC's in a gas stream emitted directly to the atmosphere (parts per million by volume, as carbon).

$D_i$  = density of coating (or input stream), as received (kilograms per liter).

$D_d$  = density of a VOC-solvent added to coatings (kilograms per liter).

$D_r$  = density of a VOC-solvent recovered by an emission control device (kilograms per liter).

$E$  = the VOC destruction efficiency of a control device (fraction).

$F$  = the proportion of total VOC's emitted by an affected facility that enters a control device (fraction).

$G$  = the volume-weighted average mass of VOC's in coatings consumed in a calendar month per unit volume of applied coating solids (kilograms per liter).

$L_c$  = the volume of coating consumed, as received (liters).

$L_d$  = the volume of VOC-solvent added to coatings (liters).

$L_r$  = the volume of VOC-solvent recovered by an emission control device (liters).

$L_s$  = the volume of coating solids consumed (liters).

$M_d$  = the mass of VOC-solvent added to coatings (kilograms).

$M_o$  = the mass of VOC's in coatings consumed, as received (kilograms).

$M_r$  = the mass of VOC's recovered by an emission control device (kilograms).

$N$  = the volume-weighted average mass of VOC's emitted to the atmosphere per unit volume of applied coating solids (kilograms per liter).

$Q_a$  = the volumetric flow rate of a gas stream leaving a control device and entering the atmosphere (dry standard cubic meters per hour).

$Q_b$  = the volumetric flow rate of a gas stream entering a control device (dry standard cubic meters per hour).

$Q_d$  = the volumetric flow rate of a gas stream emitted directly to the atmosphere (dry standard cubic meters per hour).

$R$  = the overall VOC emission reduction achieved for an affected facility (fraction).

$T$  = the transfer efficiency (fraction).

$V_s$  = the proportion of solids in a coating (or input stream), as received (fraction by volume).

$W_o$  = the proportion of VOC's in a coating (or input stream), as received (fraction by weight).

### § 60.452 Standard for volatile organic compounds.

On or after the date on which the performance test required by § 60.8 is completed, no owner or operator of an affected facility subject to the provisions of this subpart shall discharge or cause the discharge of VOC emissions that exceed 0.90 kilogram of VOC's per liter of applied coating solids from any surface coating operation on a large appliance surface coating line.